

ABSTRACT

A magnetically shielded fluorescent lamp ballast case for shielding human beings from the negative effects of magnetic fields emanating from a fluorescent lamp ballast is made of a ferromagnetic alloy, or lined on the inside or the outside of the fluorescent lamp ballast case with such foil alloys. The ferromagnetic alloy for the magnetically shielded fluorescent lamp ballast case is a soft magnetic material. The soft magnetic material is a metal alloy containing one or more than one of the following elements: iron, nickel, or cobalt. The fluorescent lamp ballast case can be made of steel or aluminum, and lined on the inside or the outside of the ballast case with a ferromagnetic foil alloy which is attached to the steel or aluminum by adhesive. The magnetically shielded fluorescent lamp ballast case for a fluorescent lamp ballast can be employed for core coil fluorescent lamp ballasts or for electronic solid state fluorescent lamp ballasts. There is a substantial attenuation of the magnetic component of the electromagnetic field, particularly of frequencies up to about 100 Kilohertz.

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